

Proposed Residential Community 148 Weston Road Wellesley, Massachusetts

Transportation Impact Assessment Summary

Prepared by:



March 20, 2018

Transportation Impact Assessment Summary

- ▶ Prepared in consultation with the Town of Wellesley and MassDOT, and performed in accordance with MassDOT's *Transportation Impact Assessment (TIA) Guidelines* and the Traffic Review standards for a Project of Significant Impact (PSI);
- ▶ Includes a detailed assessment of traffic volumes, pedestrian and bicycle accommodations and public transportation services;
- ▶ The Project was not shown to result in a significant impact on operating conditions (motorist delays or vehicle queuing) over conditions without the Project, with the majority of movements continuing to operate at LOS "D" or better under all analysis conditions;
- ▶ Independent of the Project, left-turn movements from Linden Street at Weston Road were identified as operating over capacity (defined as LOS "F") during both the weekday morning and evening peak hours, with Project-related impacts defined as an increase in vehicle queuing of up to 1 vehicle;
- ▶ Similarly, the Weston Road/Central Street intersection was shown to operate at or over capacity (LOS "E" or "F", respectively) during both the weekday morning and evening peak-hours independent of the Project, with Project-related impacts defined as an increase in overall motorist delay of less than 3.0 seconds and in vehicle queuing of up to 1 vehicle;

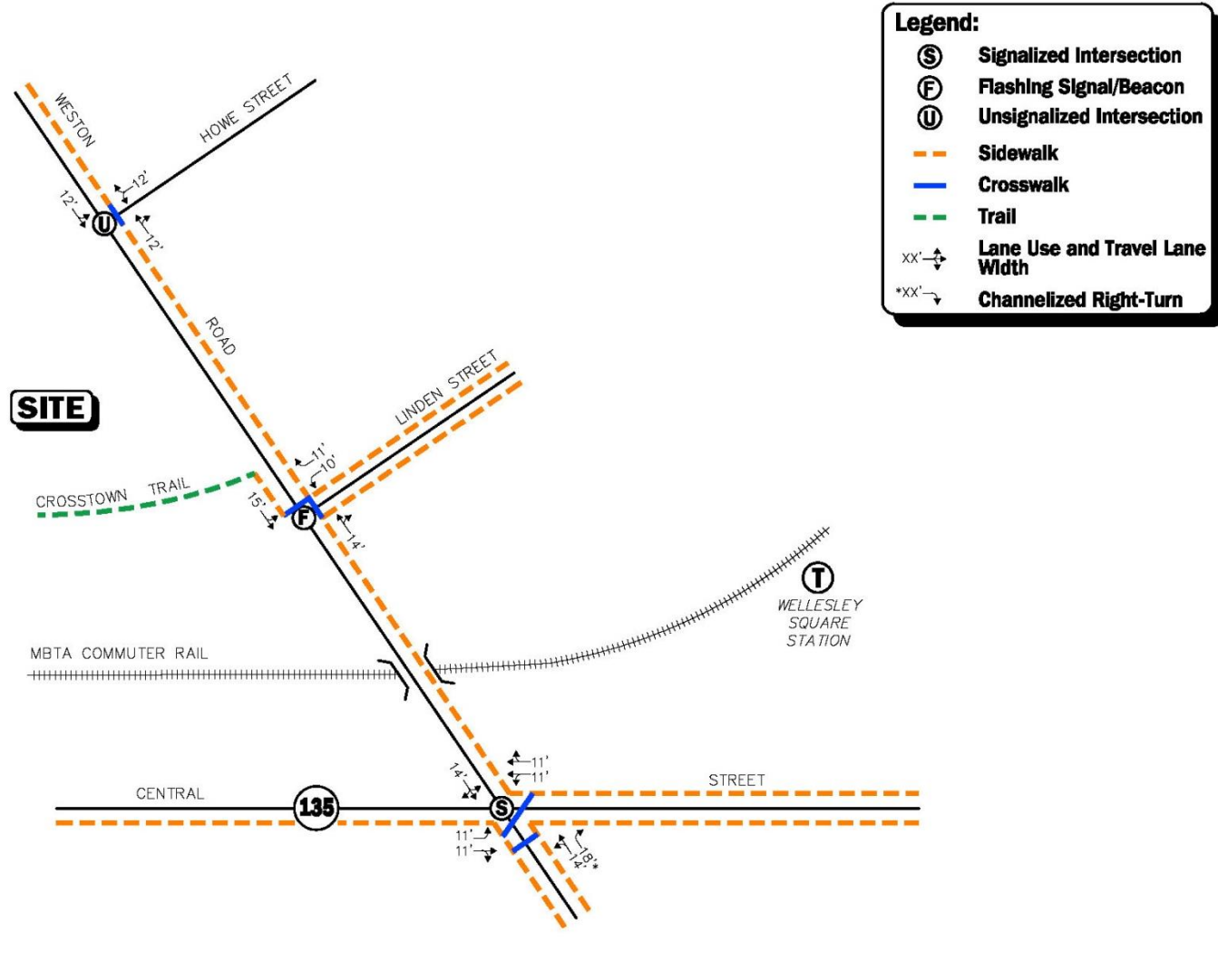
Transportation Impact Assessment Summary (Cont.)

- ▶ All movements at the Project site driveway intersection with Weston Road are expected to operate at LOS D or better during the peak hours with minimal vehicle queuing predicted;
- ▶ The Weston Road/Linden Street and Weston Road/Central Street intersections were found to have motor vehicle crash rates that were above the MassDOT average crash rate for an unsignalized and signalized intersection, respectively. Recommendations have been provided as a part of this assessment to advance safety-related improvements at these intersections; and
- ▶ Lines of sight to and from the Project site driveway at its intersection with Weston Road were found to meet, exceed or could be made to meet or exceed the required minimum distance for the intersection to function in a safe manner.

Site Location Map



Existing Intersection Lane Use, Travel Lane Width and Pedestrian Facilities



Trip Generation Summary

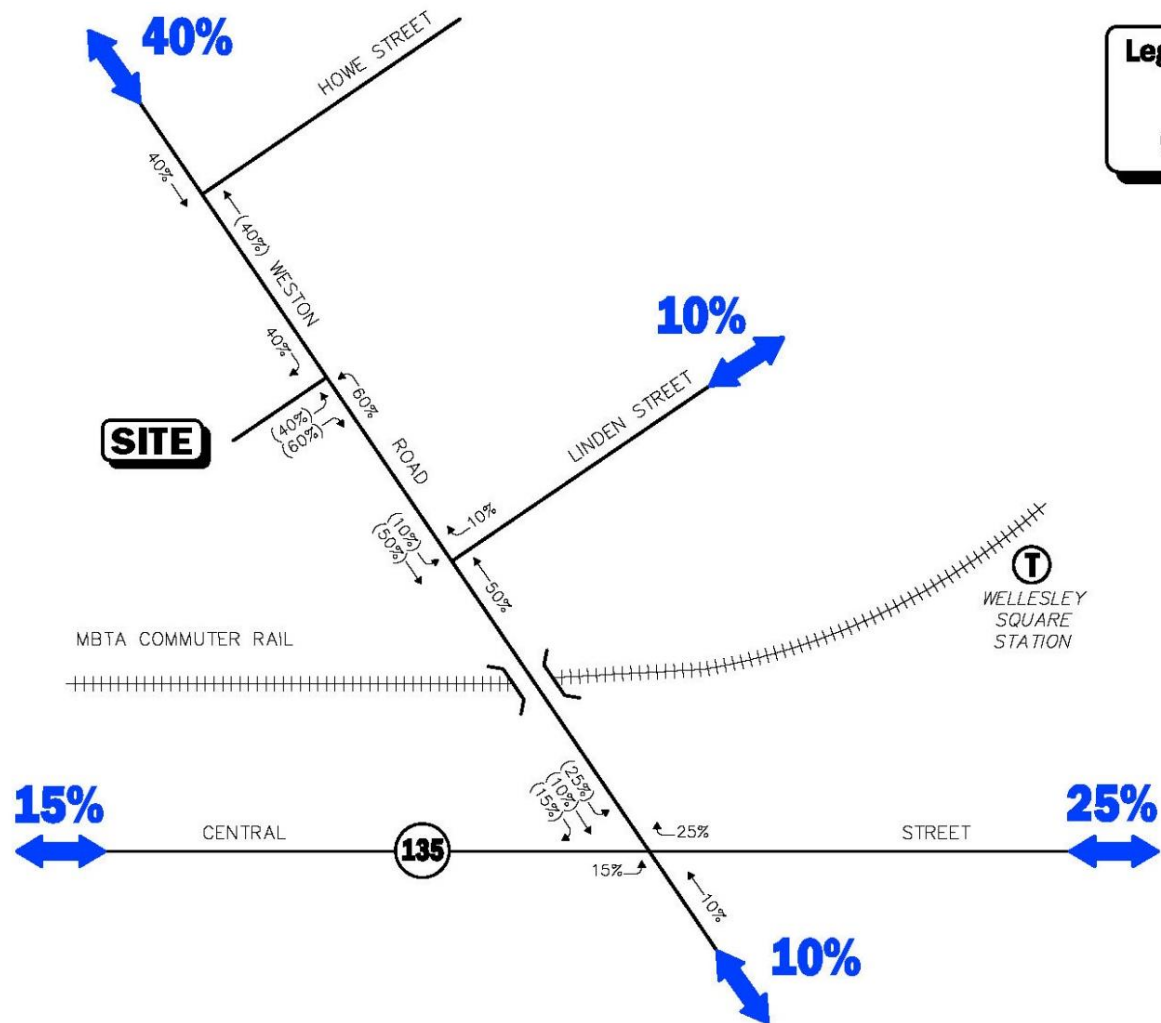
Trip Period/Direction	ITE Trips ^a	Person Trips				Automobile Trips ^c
		Total Person Trips ^b	Automobile Trips (80%)	Transit Trips (10%)	Pedestrian/ Bicycle Trips (10%)	
Average Weekday Daily:						
Entering	150	170	136	17	17	120
<u>Exiting</u>	<u>150</u>	<u>170</u>	<u>136</u>	<u>17</u>	<u>17</u>	<u>120</u>
Total	300	340	272	34	34	240
Weekday Morning Peak Hour:						
Entering	5	6	5	1	0	4
<u>Exiting</u>	<u>15</u>	<u>17</u>	<u>13</u>	<u>2</u>	<u>2</u>	<u>12</u>
Total	20	23	18	3	2	16
Weekday Evening Peak Hour:						
Entering	15	17	13	2	2	12
<u>Exiting</u>	<u>10</u>	<u>11</u>	<u>9</u>	<u>1</u>	<u>1</u>	<u>8</u>
Total	25	28	22	3	3	20

^aBased on ITE LUC 221, *Multifamily Housing (Mid-Rise)*, and 55 dwelling units.

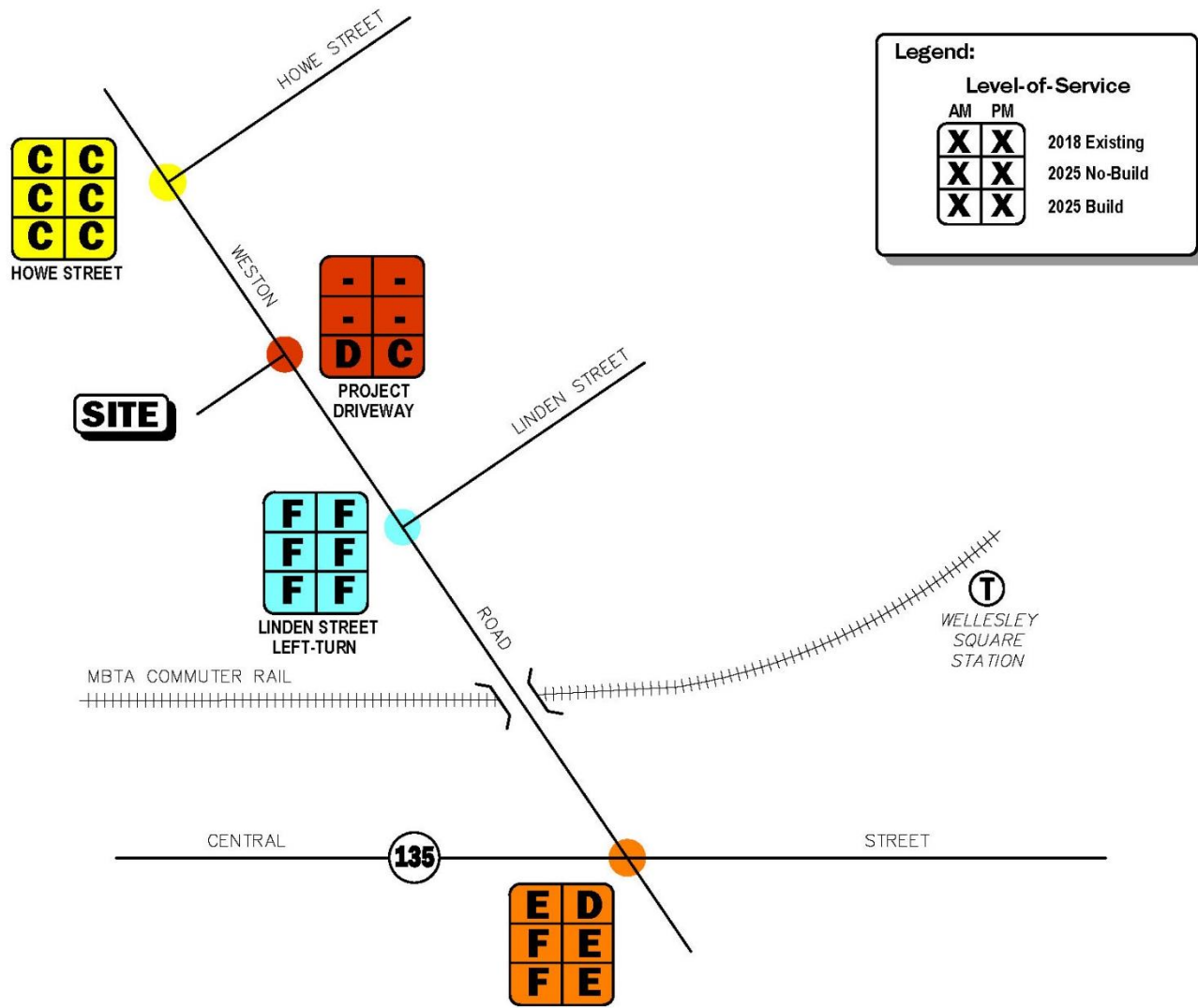
^bITE vehicle trips x vehicle occupancy ratio (VOR) of 1.13. VOR obtained from: *Summary of Travel Trends: 2009 National Household Travel Survey*; FHWA; Washington, D.C.; June 2011.

^cAutomobile person trips divided by 1.13.

Trip Distribution



Traffic Operations Analysis Summary



Transportation Improvement Program

▶ Weston Road/Linden Street:

- Facilitate the completion of a Road Safety Audit (RSA) to identify improvement strategies to enhance safety

▶ Weston Road/Central Street:

- Facilitate the completion of a Road Safety Audit (RSA) to identify improvement strategies to enhance safety
- Design and Implement an optimal traffic signal timing and phasing plan to improve traffic operations and reduce vehicle queuing

Transportation Improvement Program

▶ Transportation Demand Management:

- Property owner or manager to become a MassRIDES employer partner
- Residents to be made aware of Emergency Ride Home program
- Public transportation information to be provided in a central location and/or otherwise made available to residents
- “Welcome Packet” to be provided to new residents detailing available public transportation services and commuter options
- Pedestrian accommodations will be provided to include the construction of a sidewalk along Weston Road to Linden Street
- Secure bicycle parking will be provided